

IN THE CLAIMS:

Please cancel claims 1-8 and add new claims 9-13 as follows:

1-8. (Cancelled)

9. (New) An antenna duplexer comprising:

a transmitter surface acoustic wave (SAW) filter having an output port;

a phase shift circuit having a first port and a second port, said first port being electrically connected with said output port of said transmitter SAW filter; and

a receiver SAW filter having an input port that is electrically connected with said second port of said phase shift circuit,

wherein said transmitter and said receiver SAW filters have different frequency bands, providing attenuation with each other,

wherein said phase shift circuit is operable to shift a phase of said receiver SAW filter in its transmitter-band and has a phase angle and a characteristic impedance with which a magnitude of a reflection coefficient at a center frequency in the transmitter-band of said receiver SAW filter is to be not less than 0.8 and the phase angle of reflection coefficient at a center frequency in the transmitter-band of said receiver SAW filter is to be from 0° to 45°, and

wherein said phase shift circuit has a less-than-50 ohm characteristic impedance.

10. (New) The antenna duplexer of claim 9, wherein the characteristic impedance of said phase shift circuit is 42 ± 8 ohms excluding 50 ohms.

11. (New) An antenna duplexer comprising:

a transmitter surface acoustic wave (SAW) filter having an output port;

a phase shift circuit having a first port and a second port, said first port being electrically connected with said output port of said transmitter SAW filter; and

a receiver SAW filter having an input port that is electrically connected with said second port of said phase shift circuit,

wherein said transmitter and said receiver SAW filters have different frequency bands, providing attenuation with each other,

wherein said phase shift circuit is operable to shift a phase of said receiver SAW filter in its transmitter-band and has a phase angle and a characteristic impedance with which a magnitude of a reflection coefficient at a center frequency in the transmitter-band of said receiver SAW filter is to be not less than 0.8 and the phase angle of reflection coefficient at a center frequency in the transmitter-band of said receiver SAW filter is to be from 0° to 45° , and

wherein the characteristic impedance of said phase shift circuit is 42 ± 8 ohms excluding 50 ohms, and the phase angle of said phase shift circuit is $90 \pm 10^{\circ}$.

12. (New) An antenna duplexer comprising:

a transmitter surface acoustic wave (SAW) filter having an output port;

a phase shift circuit having a first port and a second port, said first port being electrically connected with said output port of said transmitter SAW filter; and

a receiver SAW filter having an input port that is electrically connected with said second port of said phase shift circuit,

wherein said transmitter and said receiver SAW filters have different pass bands and attenuate the other pass band with each other, and

wherein said phase shift circuit is operable to shift a phase of said receiver SAW filter in its transmitter-band and has a less-than-50 ohm characteristic impedance.

13. (New) The antenna duplexer of claim 12, wherein the characteristic impedance of said phase shift circuit is 42 ± 8 ohms excluding 50 ohms.